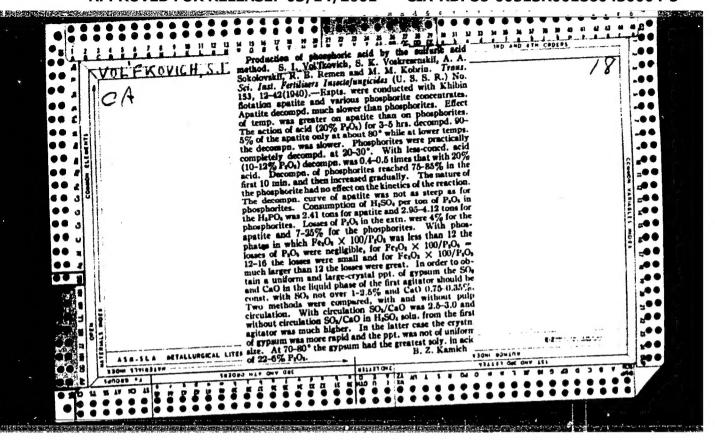
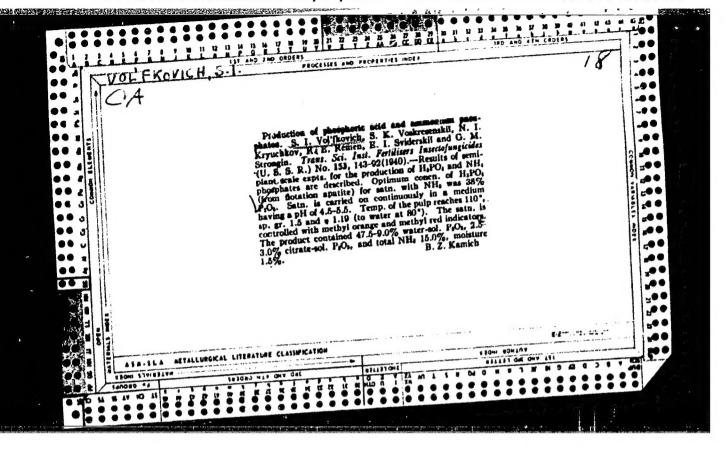


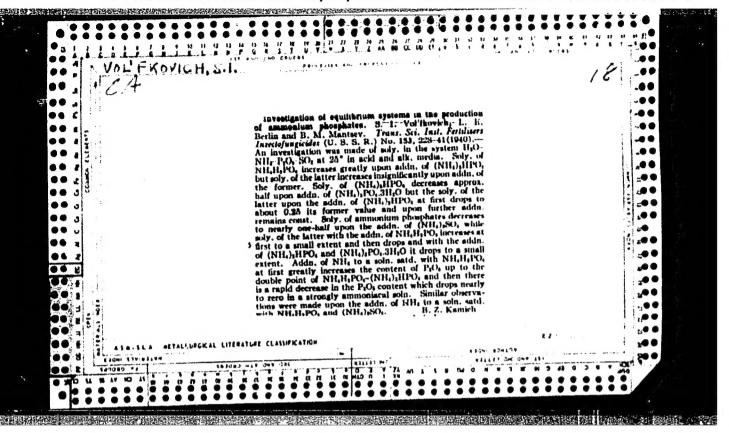
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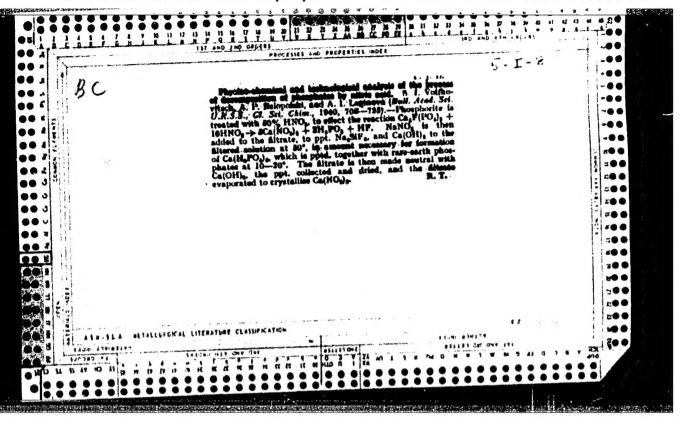


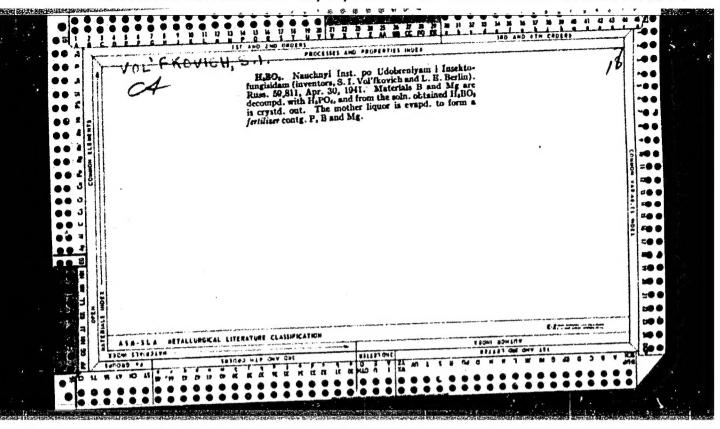


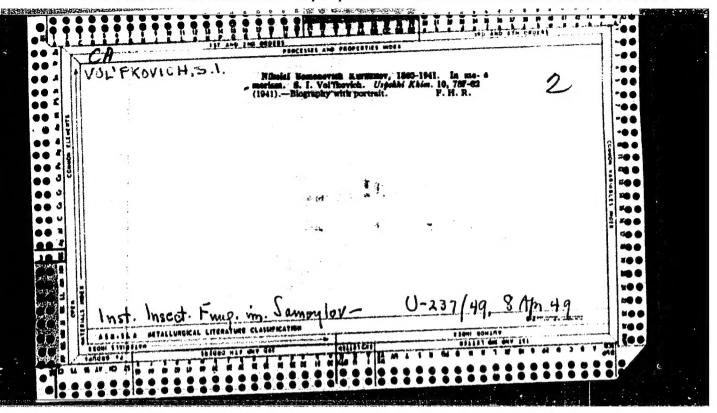
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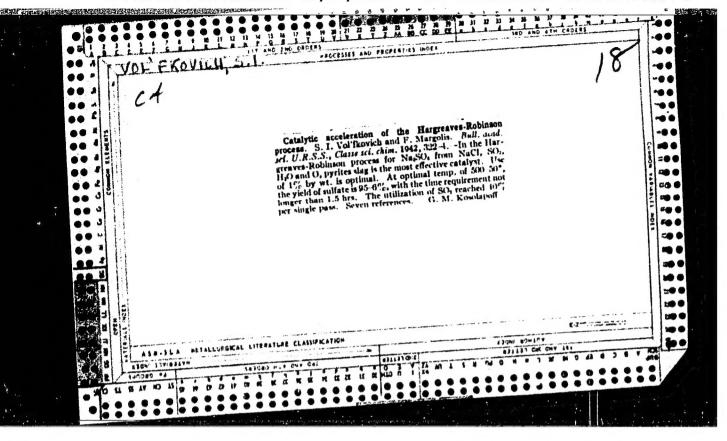
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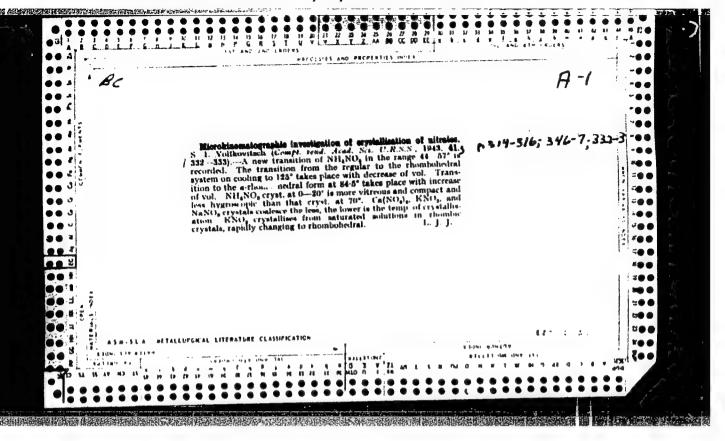




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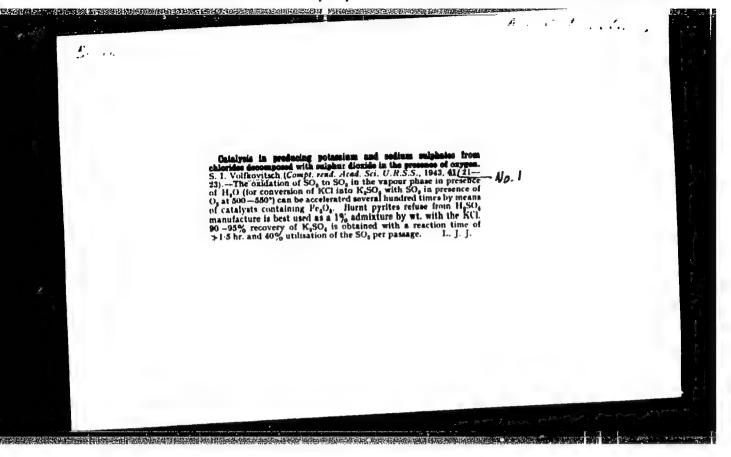
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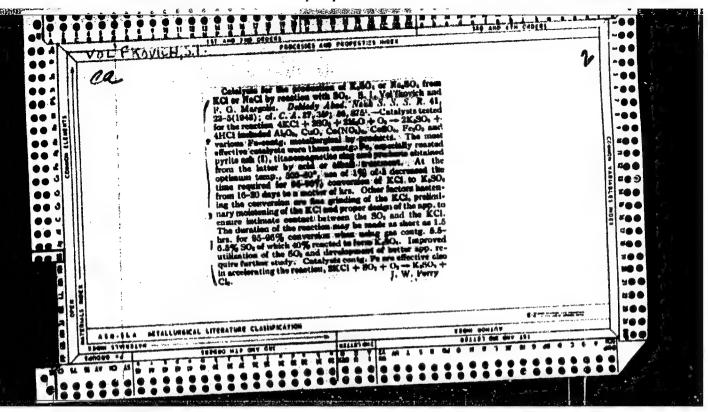


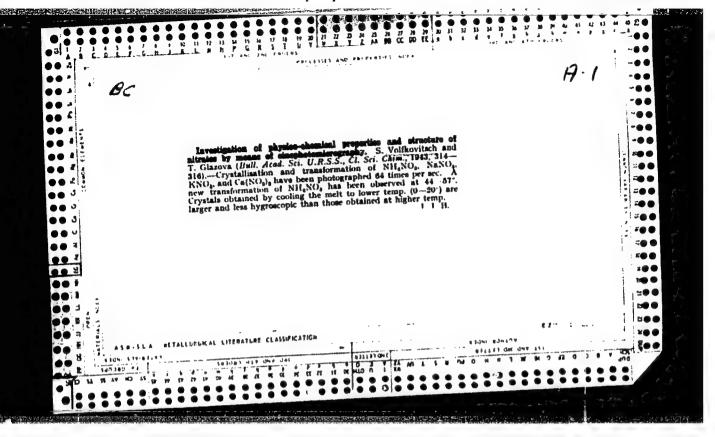
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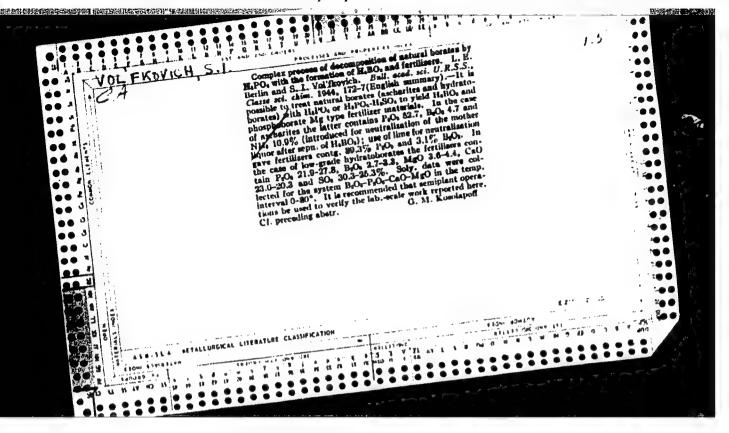
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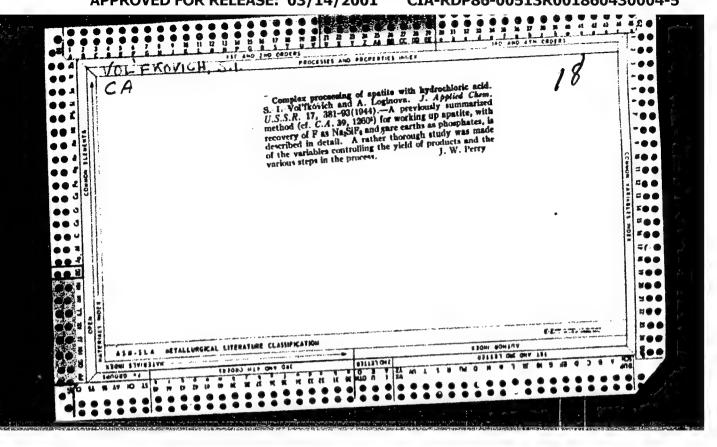
SO: U-237/49, d April 1949

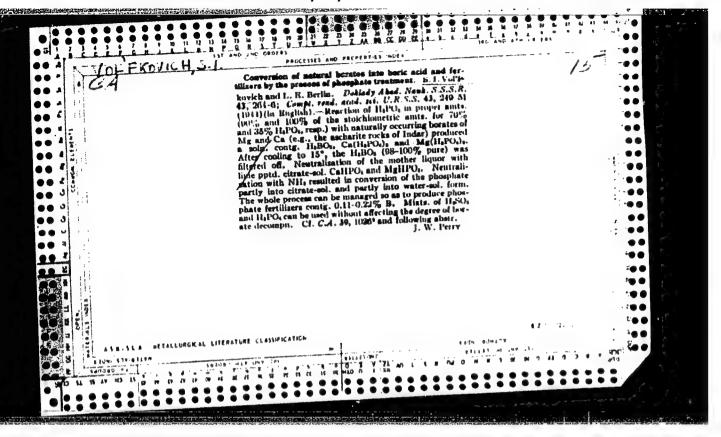


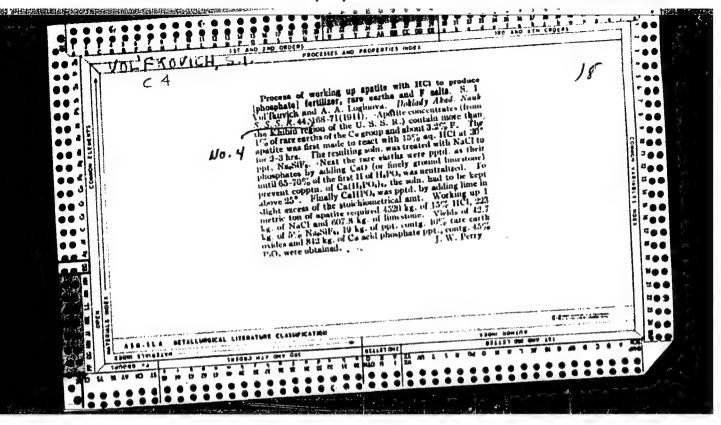


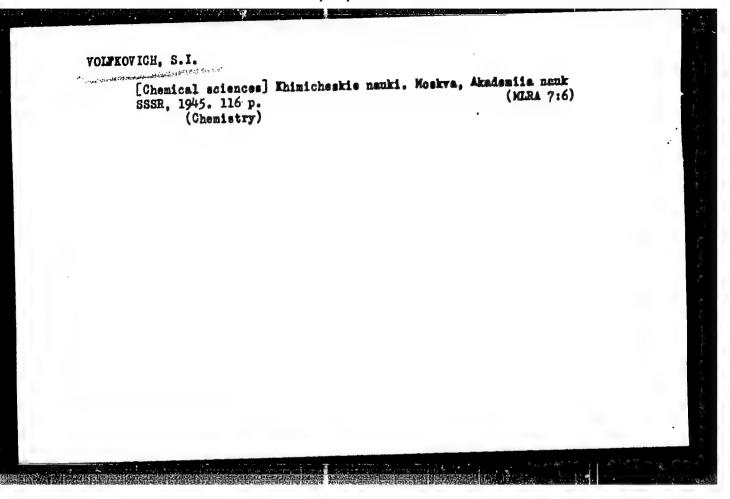


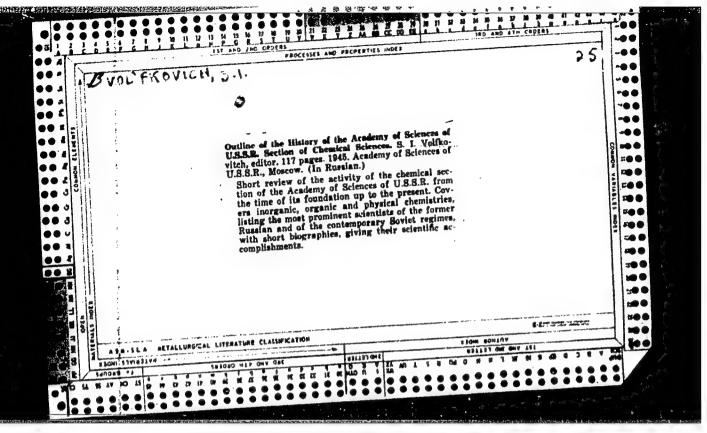


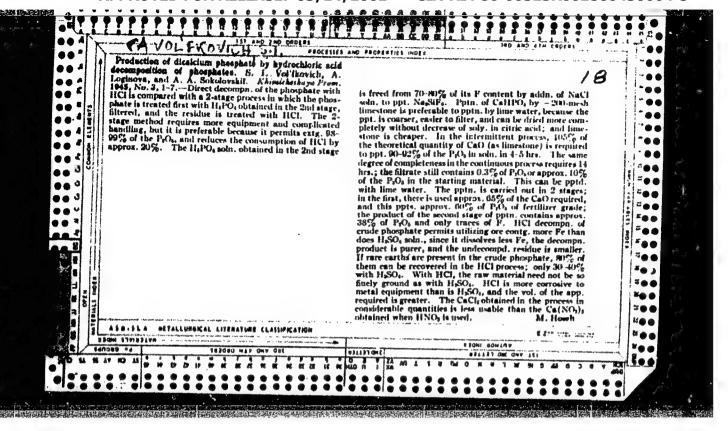


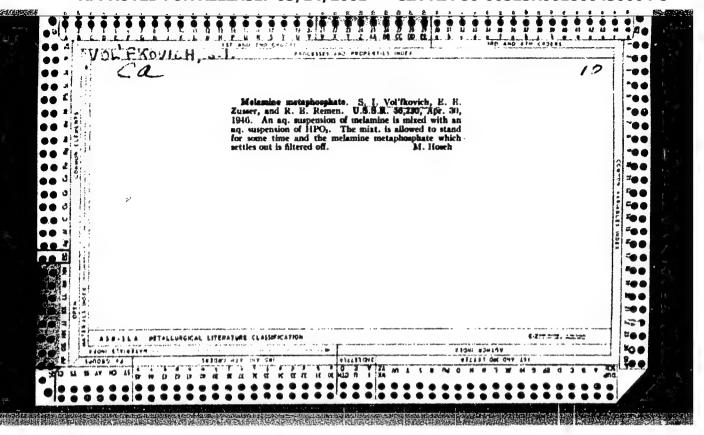












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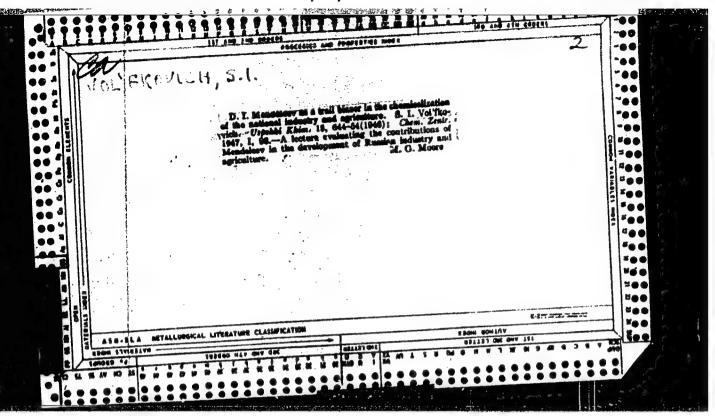
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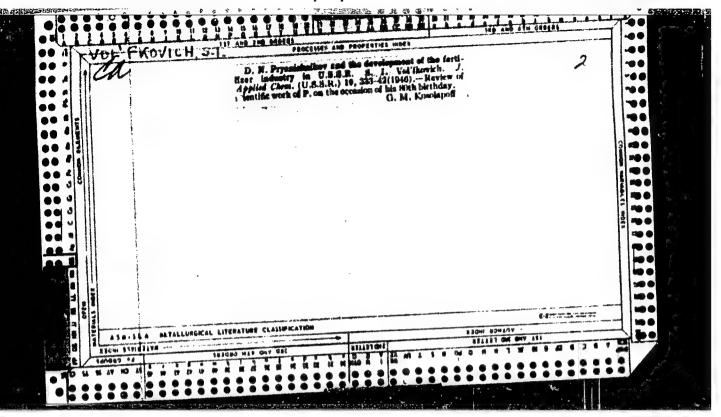
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Melamine phosphates. S. I. Vol'Ikovich, E. E. Zusser, and R. E. Remen. Bull. acad. sci. U.R.S.S., Classe sci. chim, 1946, 517-9.—The metaphosphate was prepd. by a new method, termed the "suspension method," in a reaction between solid melamine, C.H.R., (I), and solid HPO, in suspension in H<sub>2</sub>O. This method permits considerable reduction of the vol. of the app. and economy of operations; also, hydration of solid HPO, is slow, hence there is a smaller amt. of other phosphates in the product. A mixt. of 10 parts by wt. of I with 18 parts "HPO<sub>4</sub>" (solid, contg. 67.6% P<sub>2</sub>O<sub>5</sub> and about 40% salts, mainly NaPO<sub>4</sub> and 200 ml. H<sub>2</sub>O<sub>5</sub> gave in 1 lin., at 30, 60, and 80, a product with a soly. of 0.25, 0.23, and 0.30%, resp.: the yield of LHPO<sub>4</sub> was 1.5-1.6 wt. parts per 1 part I. The solid product obtained in suspension filtered readily and

could be washed about 10 times faster than that obtained in solu, with chemically pure HPO<sub>1</sub>, the product was difficult to filter and to wash. The optimum drying tempis 45-50°, a higher drying temp, or prolonged drying impairs the quality of the product in the sense of lowering the P<sub>1</sub>O<sub>1</sub> content and increasing the soly, owing to partial conversion to orthophosphate. On standing above H<sub>2</sub>O at 20°, the increase of wt. was 14-15 and 60-70°, resp., in 7 and 20 days, and the soly, rose to 0.74%. Synthesic from I and (NaPO<sub>1</sub>) gave poorer yields and poorer quality (higher soly.). The pyrophosphate was synthesized by 2 methods, either by producing first the orthophosphate

from H<sub>2</sub>PO<sub>4</sub> and I in suspension or in soln, and heating at 250–70°, or by direct reaction of I with Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub> in soln, and pptn, with an acid. The LH<sub>2</sub>PO<sub>4</sub> obtained in the 1st method was easily filtered and washed with cold water, dried at 100–120°, and converted to 2LH<sub>4</sub>P<sub>2</sub>O<sub>3</sub> at 250–70°; the product contained 33% P<sub>2</sub>O<sub>4</sub> and its soly, at 20° was not over 0.1%. By the 2nd method, using 9–18 g. Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub> per 5 g. I, the best products (soly, 0.07–0.16%) were obtained by pptn, with HCl or HNO<sub>4</sub>; pptn, with H<sub>2</sub>PO<sub>3</sub> gives more highly sol, products, and requires greater expenditure of acid. The best filterability is obtained at about 0.049–0.046% HNO<sub>4</sub> in the pulp, and an optimum stirring rate of 60–80 r.p.m. The pyrophosphate is best dried at above 100°. Variations of the soly, of the different products are due to the presence of varying amts, of the other phosphates. The solubilities of the individual phosphates, at 20° and 100°, are: LHPO<sub>4</sub> 0.09 and 1.60%; LH<sub>4</sub>PO<sub>4</sub> 0.35 and 2.91%; 2LH<sub>4</sub>PO<sub>7</sub> 0.09 and 0.54%. In the order of decreasing hygroscopicity, the gain of wt. after 17 days over H<sub>3</sub>O at 17° was: LHPO<sub>4</sub> appears on microscopic examulas a microcryst, aggregate, n(av.) ~ 1.640. 2LH<sub>4</sub>PO<sub>4</sub> forms fine orthorhombic plates or needles, the former with n<sub>2</sub> 1.483, n<sub>3</sub> 1.712, the latter 1.535, 1.723. LH<sub>4</sub>PO<sub>4</sub> forms fine orthorhombic plates or needles, the former with n<sub>2</sub> 1.483, n<sub>3</sub> 1.712, the latter 1.535, 1.723. LH<sub>4</sub>PO<sub>4</sub> forms fine orthorhombic plates or needles, the former with n<sub>2</sub> 1.483, n<sub>3</sub> 1.712, the latter 1.535, 1.723. LH<sub>4</sub>PO<sub>4</sub> forms fine orthorhombic plates or needles, the former with n<sub>2</sub> 1.483, n<sub>3</sub> 1.712, the latter 1.535, 1.723. LH<sub>4</sub>PO<sub>4</sub> forms fine orthorhombic plates or needles, the former with n<sub>4</sub> 1.483, n<sub>5</sub> 1.712, the latter 1.535, 1.723. N. Thon





VOLFKOVICH, S. I.

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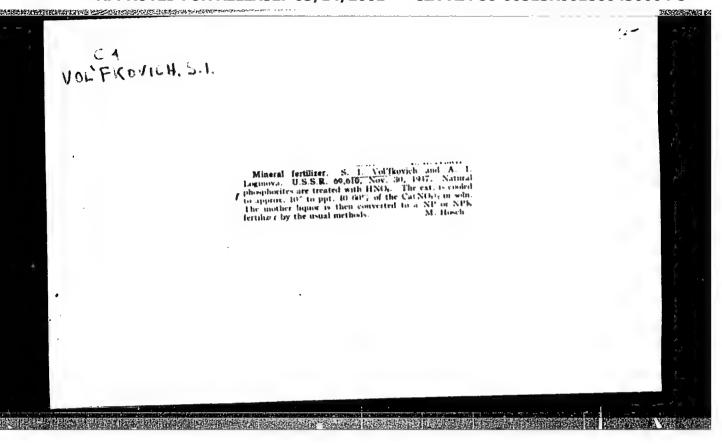
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Nov 1947

"Production of Mineral Fertilizers in the USSR for Thirty Years," Academician S. I. Vol'fkovich, A. M. Dubovitskiy, Candidate in Technical Sciences, 8 pp

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A brief historical survey of mineral fertilizer production in the USER for the past 30 years. The establishment of the various raw material bases is discussed with some treatment of the chemical aspects of the raw materials. The production of phosphorous fertilizers is discussed at length. Production of borates and other fertilizers, and the chemical and physicochemical analysis of the different types of fertilizers is treated. COM

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TROOM /manual advances		
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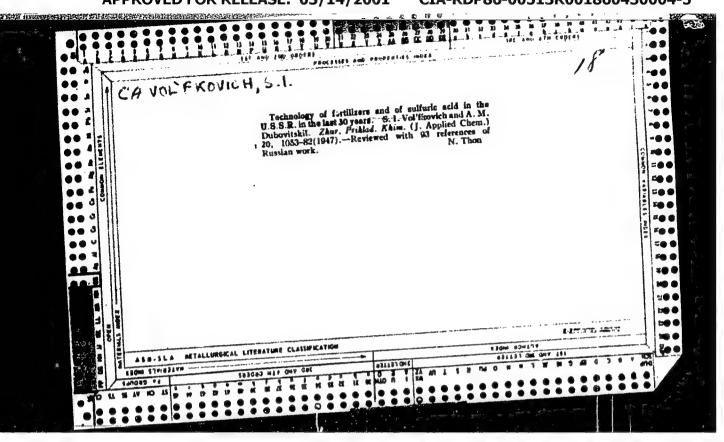
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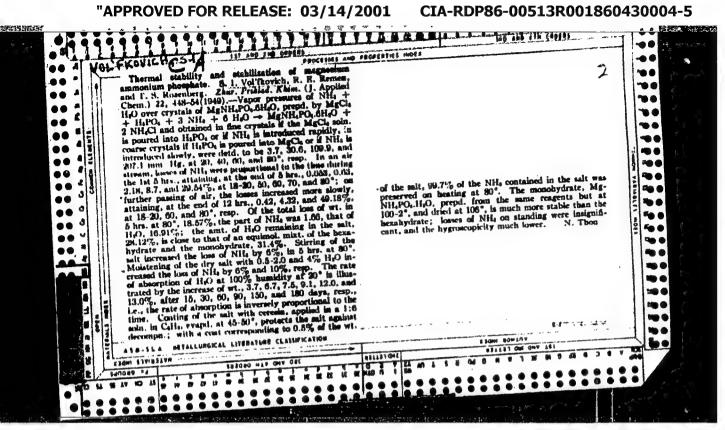
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DANG SELECTION OF PA 53/49T23 VOLIFKOVICH, S. I. Jul/Aug 49 USSR/Chemistry Fortilizers Nitric Acid "Nitric and Phosphoric Fertilizers Made by Decomposition of Phosphates by Nitric Acid, S. I. Vol'fkovich, A. I. Loginova, Moscow, 10 pp "Uspekhi Khim" Vol XVIII, No 4 Gives a complete graphical physicochemical analysis of the system CaO -P<sub>2</sub>O<sub>5</sub>-N<sub>2</sub>O<sub>5</sub>-H<sub>2</sub>O at 100, 75, 50, 25, and 5 C, and tabulates relation between amount of phosphate decomposed and amount of nitric acid used. 53/49123



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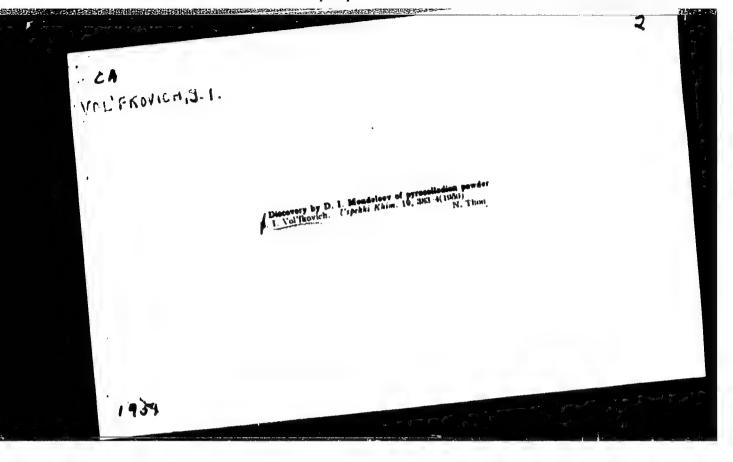
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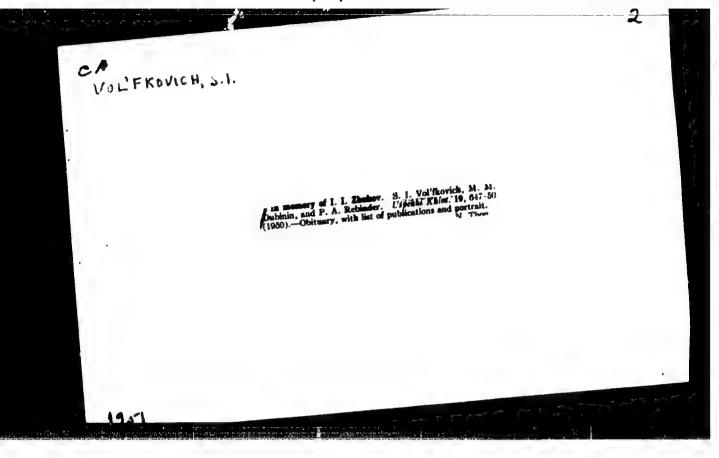
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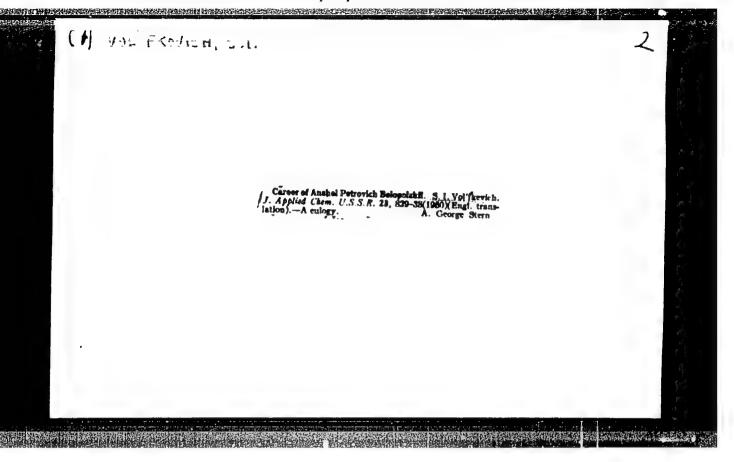
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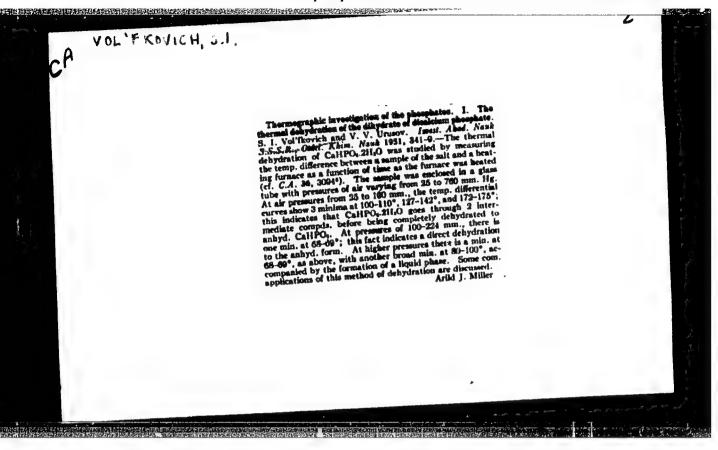
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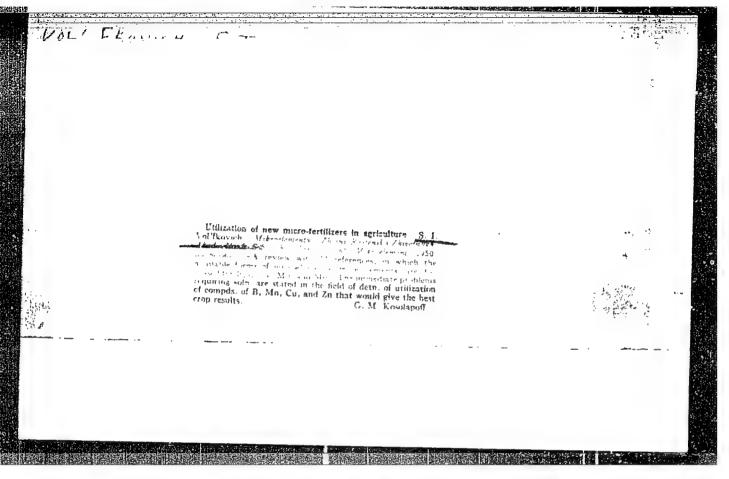
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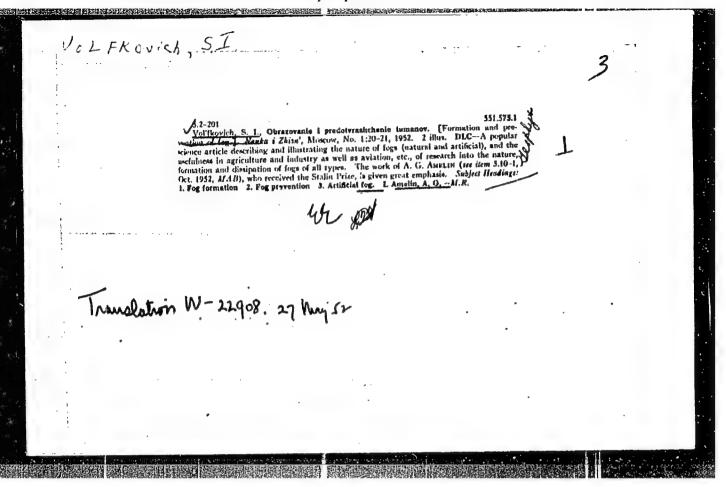
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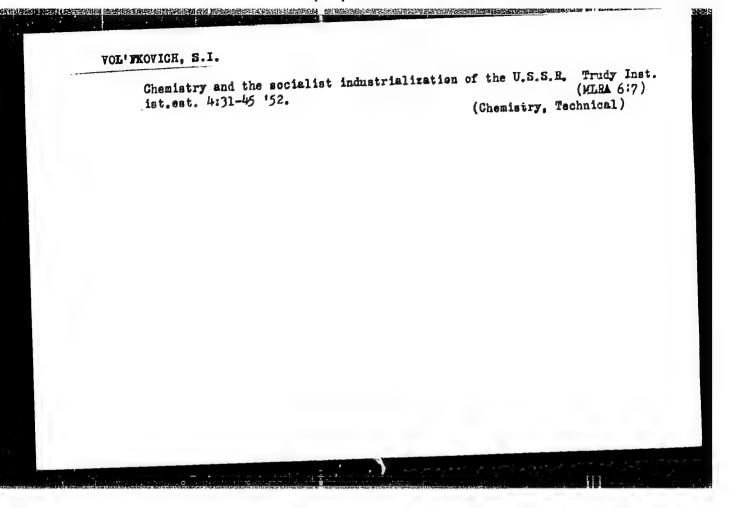
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- 1. VOL'FKOVICH, S. I., Acad.
- 2. USSR (600) · ··
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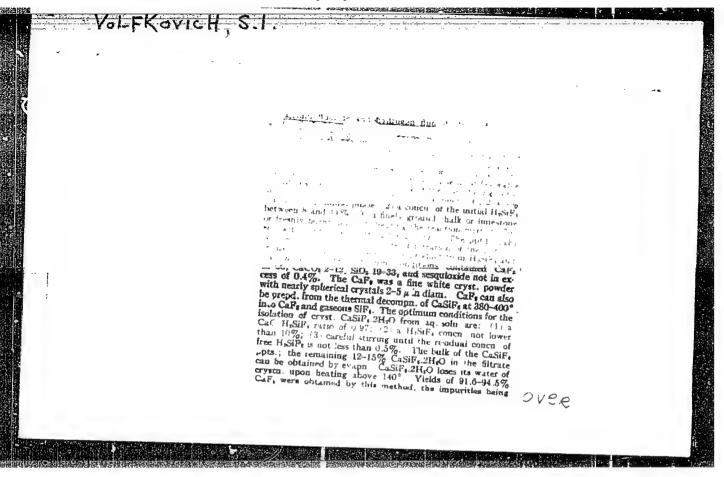
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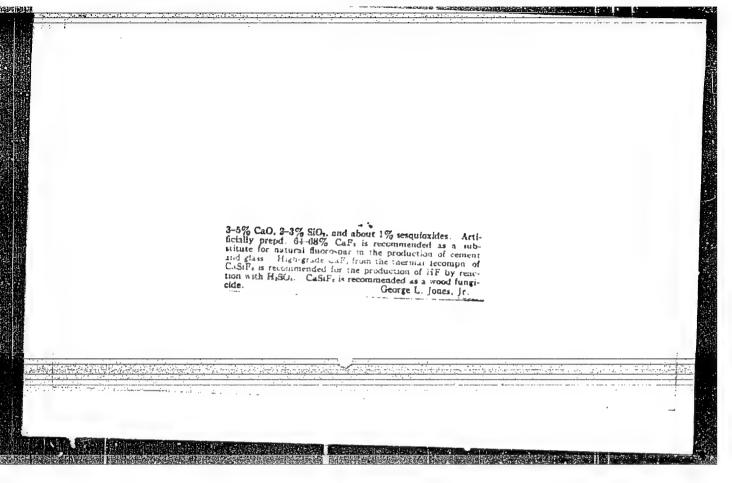
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ANOSOV, Viktor Yakovlevich, professor, doktor khimicheskikh nauk; POGODIN, Sergey Aleksandrovich, professor, zaalushennyy deyatel' nauki i tekhniki ESFSR, doktor khimicheskikh nauk [aukhors]; VOLTKOVICH, S.I., akademiz; ILOCHEO, M.A., professor, doktor khimicheskikh nauk, laureat Stalinskoy prenii [reviewers].

Second awarding of N.S. Kurnakov's prize ("Fundamentals of physicochemical analysis," V. IA. Anosov, S.A. Pogodin, Reviewed by S.I. Vol'fkovich, M.A. Klochko). INv. Sett., fiz., -khim., anal, 21:5-9 152. (WIRA 6:7) (Chemistry, Analytical) (Pogodin, Sergei Aleksandrovich) (Anosov, Viktor Iakovlevich, 1891-) (Chemistry, Physical and theoretical)





VOLIFKOVICH, S. I.

USSR/Chemistry - Fhosphorus Corpounds

Jun 52

"Separation of a Mixture of POCl<sub>3</sub> and PCl<sub>3</sub>," T. I. Sokolova, V. V. Illarionov, S. I. Vol'fkovich

"Zhur Prik Khim" Vol XXV, No 6, pp 652-657

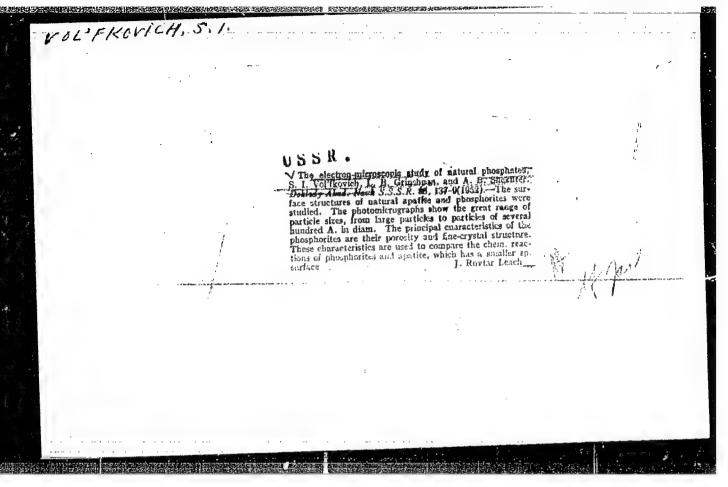
It is shown that values expressing the dependence of partial pressures on the compn of the PCl3-POCl3 mixt, as derived for the purpose of plotting the isotherm of partial pressures of the system, satisfy the Duheme / eq and allow calcn of the Duheme-Margulis const. On the basis of the data obtained, the dependence of the compn of the vapor phase on the compn of the liquid phase can be plotted. It can be considered, with sufficient accuracy, as an isobaric function.

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(BA-A1 Je '53:510)

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- 2. USSR (600)
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- 7. In memory of Professor Eduard Ksaver evich Lopatto (1893-195%). Zhur. prikl. khim. 25 no. 10, 152.

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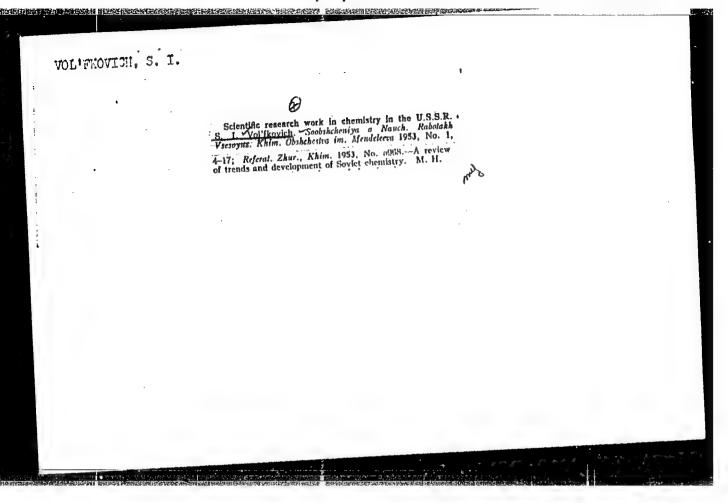
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TREASURE ISLAND BIBLIOGRAPHIC REPORT

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BOOK

Call No.: AF582723

Author: VOL'FKOVICH, S. I., YEGOROV, A. P., and EPSHTEYN, D. A.

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Tech. Ed.: None Appraiser: None Editor-in-Chief: Vol'fkovich, S. I., Acad. Others: Gratitude is expressed to several Soviet scientists for their

valuable comments. Three additional authors are mentioned: Z. A. Rogovin,

Yu. P. Rudenko, I. V. Shmanenkov.

APPROVED FOR RELEASE: 03/14/2001

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Coverage:

The book consists of two volumes. Volume I is devoted to general problems of chemical technology (such as raw materials, energetics, technology of water and fuel), to the manufacture of gases, acids, alkalies, salts, fertilizers, and to electrochemical processes, etc. Some illustrations of machinery, tables, and diagrams are included.

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Obshchaya khimicheskaya tekhnologiya

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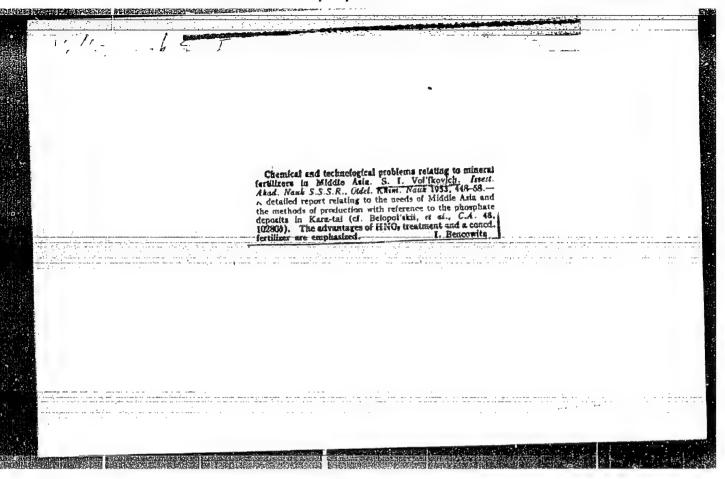
The book <u>might</u> be of interest because it <u>mentions names</u> of many Soviet scientists and their contributions to the development of various chemical industries. Deposits of some raw materials in the U.S.S.R. and goals set by the Five-Year Plan (1951-1955) for

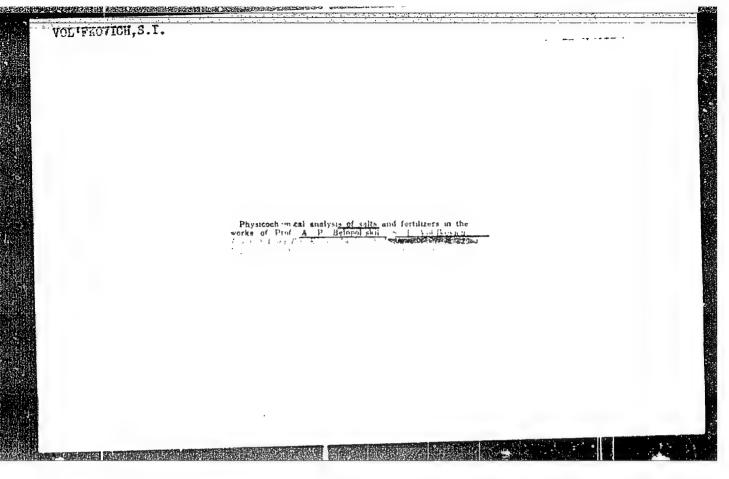
Purpose: Approved by the Ministry of Higher Education of the U.S.S.R. as a textbook for departments and colleges of chemical technology.

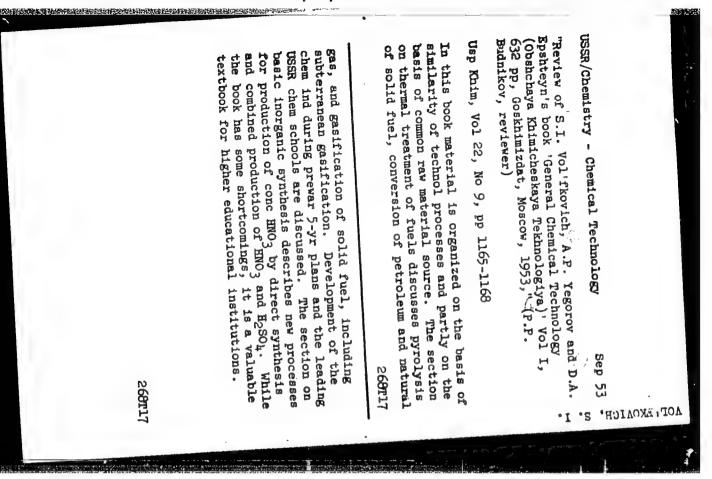
Facilities: Names of many Soviet chemists are mentioned.
No. of Russian and Slavic References: 145 (1922-1952)
Available: A.I.D., Library of Congress.

**14.10 元日为社会认为 P.56 发生的人,但是自己的人,但是是是一个人,但是是一个人,但是是一个人,但是是一个人,但是一个人,但是一个人,** 

2/2







VOLYKOVICH. 5.1.: YEGOROV, A.N.; EPSHTKYN, D.A. [authors]; YAKOVKIN, G.A. [reviewer].

"General chemical technology." S.I.Vol'fkovich, A.N. Egorov, D.A. Epshtein.
Reviewed by G.A. IAkovkin. Enur. prikl. khim. 26 no.10:1103-1104 0 '53.

(Chemistry, Technical) (Vol'fkovich, Semen Isaakovich)

(Egorov, A.N.) (Epstein, D.A.)

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TYYAGINTSEV, O.Ye. [reviewer]; YOL'FKOVICH, S.I.; YEGOROV, A.P.; HPSHTEYN, D.A. [authors].

"General chemical technology." S.I.Vol'fkovich, A.P.Egorov, D.A.Epshtein. Reviewed by O.E.Eviagintsev. Thur.prikl.khim. 26 no.12:1323-1324 D '53.

(MLRA 6:11)

(Chemistry, Technical) (Vol'fkovich, Semen Isaakovich) (Egorov, A.P.)

(Eporov, A.P.)

(MPahtein, D.A.)
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RAZUVAYEV, G.A.; PETUKHOV, G.P.; REKASHEVA, A.F.; MIKIUKHIN, G.P.; VOL'FKO-VICH, S.I., akademik.

Use of deuterium in the study of photochemical reactions in the liquid phase of metalorganic compounds. Dokl.AN SSSR 90 no.4:569-572 Je \*53.

(MLRA 6:5)

1. Akademiya Nauk SSSR (for Vol'fkovich). 2. Institut fizicheskoy khimii im. L.V. Pisarshevskogo Akademii nauk Ukrainskoy SSR (exc. Vol'fkovich).
3. Gor'kovskiy gosudarstvennyy universitet (for all exc. Vol'fkovich).
(Organometallic compounds) (Deuterium)

RODE, T.V.; VOL'FKOVICH, S.I., akademik.

Polymorphous conversions of potassium and sodium peroxides, at low temperatures. Dokl. AN SSSR 90 no.6:1075-1078 Je '53. (MLRa 6:6)

1. Akademiya nauk SSSR (for Vol'fkovich).

(Peroxides)

RODE, T.V.; DOBRYNINA, T.A.; VOL'FKOVICH, S.I., akademik.

Thermal analysis of lithium peroxide. Doki. AN SSSR 91 no.1:125-127
J1 '53. (MLRA 6:6)

1. Akademiya nauk SSSR (for Vol'fkovich).

(Lithium peroxide) (Thermal analysis)

IESKOVICH, I.A.; VOL'YKOVICH, S.I., akademik,

Relaxation of strains in phase transformations of ammonium nitrate and p-dichlorobenzene. Dokl. AH SSSH 91 no.2:295-298 JI '53. (MLEA 6:6)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova akademii nauk SSSR. 2. akademiya nauk SSSR (for Vol'fkovich).

(Phase rule and equilibrium) (Ammonium nitrate) (Benzene derivatives)

RODE, T.V.; VOL'FROVICH. S.I., akademik.

Thermographic study of lithium carbonate. Dokl.AN SSSR 91 no.2:313-314 J1 153. (MLRA 6;6)

1. Akademiya nauk SSSR (for Vol'fkovich). (Lithium carbonate) (Thermochemistry)

BOKIY, 7.B.; SMIHNOVA, N.N.; VOL'FKOVICH, S.I., akademik.

Crystallochemical investigation of the compound AgyWO11. Dokl.AM SSSR 91 no.4:821-823 Ag 153. (MLRA 6:8)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Institut obshchey i neorganicheskoy khimii im. N.S.Kuranakova Akademii nauk SSSR.

TSIKLIS, L.S.; VOL'FROVICH, S.I., akademik,

Compressibility of ammonia at pressure up to 10 000 atm. Dokl.AN SSSR 91 no.4:889-890 Ag '53.

1. Akademiya nauk SSSR (for Vol'fkovich).

(Ammonia)

GEL'D, P.V.; PASHILOV, A.I.; CHUCHMAREV, S.K.; VOL'FKOVICH, S.I., akademik.

Reciprocal solubility of calcium oxide and calcium carbonate. Dokl.AN SSSR 91 no.5:1115-1117 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Ural'skiy politekhnicheskiy institut im. S.M.Kirova. (Calcium compounds) (Solubility)

TSIKLIS, D.S.; VOL'PKOVICH, S.I., akademik.

Limited reciprocal solubility of gases in the system: helium - ethylene, under high pressures. Dokl.AN SSSR 91 no.6:1361-1363 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Nauchno-issledovatel'skiy i provektnyy institut azotnoy promyshlennosti (for TSiklis).

(Solubility) (Helium) (Ethylene)

KUSKOV, V.K.; GRADIS, T.Kh.; VOL'PKOVICH, S.I., akademik.

Reaction of diethyl phosphite with sodium alcoholates. Dokl.AN SSSR 92 no.2: 323-324 S '53. (MLRA 6:9)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Kuskov and gradis).

(Diethyl phosphite) (Alcoholates)

PORAY-KOSHITS, N.A.; ANTSISHKINA, A.S.; VOL'FKOVICH, E.I., akademik.

Structure of the crystals of dichlorotetrapyridine of nickel, and dichlorotetrapyridine of cobalt. Dokl.AN SSSR 92 no.2:333-335 S '53. (MIRA 6:9)

1. Akademiya namk SSSR (for Vol'fkovich).
(Nickel organic compounds) (Cobalt organic compounds)

POZIN, M.Ye.; MUKHLENOV, I.P.; VOL'FKOVICH, S.I., akademik.

Foam conditions for the processing of gas-fluid systems. Dokl.AN SSSR 92 no.2: 393-396 S '53. (MLRA 6:9)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Leningradskiy tekhnologicheskiy institut im. Lensoveta (for Pozin and Mukhlenov).

(Foam) (Fluid dynamics)

VAYNSHTEYN, E.Ye.; VOL'FKOVICH, S.I., akademik.

Generalization of the equation for the converted function of blackening.

Dokl.AN SSSR 92 no.4:723-725 0 153. (MLRA 6:9)

1. Akademiya nauk SSSR (for Vol'fkovich). 2. Institut geokhimii o analiticheskoy khimii im. V.I. Vernadskogo Akademii nauk SSSR (for Vaynshteyn). (Microspectrophotometry)

BOKIY, G.B.; BATSANOV, S.S.; VOL'FKOVICH, S.I., akademik.

Refraction of the hydrogen bond. Dokl.AM SSSR 92 no.6:1179-1180 0 '53.
(MIRA 6:10)

1. Akademiya nauk SSSR (for Vol'fkovich). (Refraction) (Hydrogen)

VCL'FKCVICH, S. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions amounces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Mane

Vol'fkovich, S. I. Yegorov, A. P. Eushteyn, D. A.

Title of Work

"General Chemical Tech-

Nominated by

Scientific Research Innology" (Textbook, Vol I) stitute of Teaching, Academy of ledagogical Sciences ESFoR

W-30604, 7 July 1954

VOL'FKOVICH, S.I.

VOL'FKOVICH, S.I., akademik; SERGIYENKO, S.R., doktor khimicheskikh nauk professor; KAUFMAN, I.M., redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor

[Russian chemists; annotated reading list] Russkie khimiki; annotirovannyi ukazatel literatury. Vvodnaia statia i biograficheskie ocherki S.R.Sergienko. Pod red. S.I.Vol'fkovicha. Moskva, 1954. 145 p. (Chto chitat' o vydaiushchikhsia deiateliakh otechestvennoi nauki i tekhniki. ro.5)

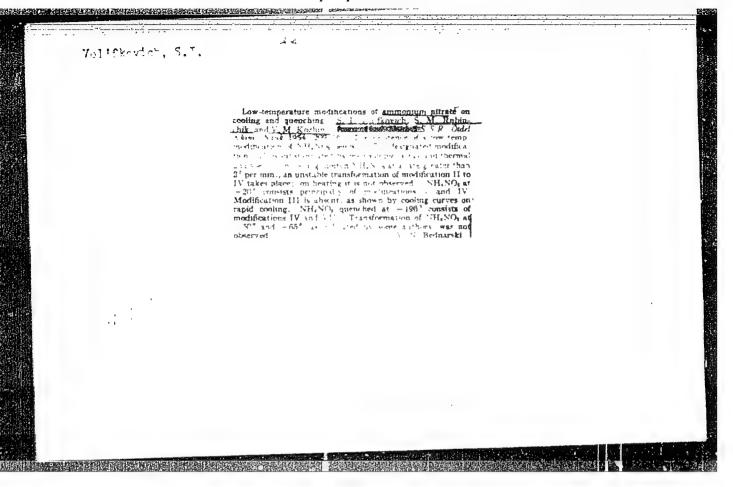
(Chemists)

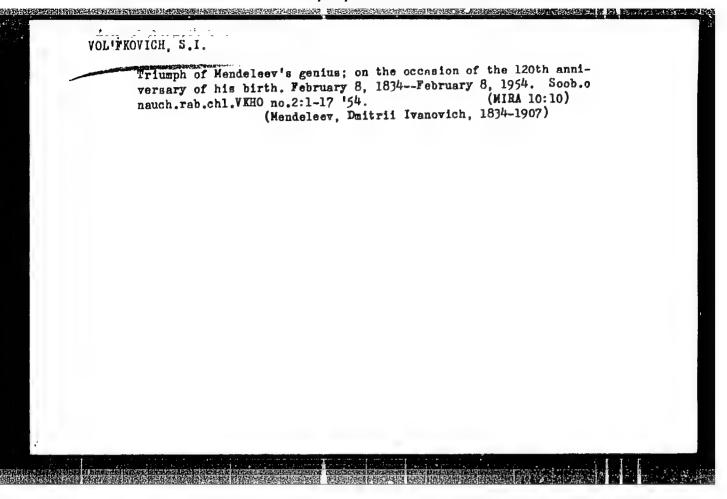
IIISSR

Reaction of phenol with phosphorus. S. I. Vol'ikovich, V. K. Kuzkov, and K. P. Koroteeva. INME. AEdd. Nauk. S. S. S. R., Oidel. Khim. Nauk 1954, 5-8.—Heating P with EtOH in an antoclave at 240-50° and 160 atm. gave a low yield of organo-P derivs., including those, b. 110-220°, whose structure was not detd. The gaseous products contained C.H.. At higher temp, noticeable amts. of decomposition of experimental tis believed that the 1st reaction is dehydration of EtOH and the reaction of the resulting If-O with P; the resulting products then react with EtOH yielding the various products. PhOH does not react with red P in an autoclave, even at 300°, but in the presence of a little H-O reaction starts even at 200° with a rise in pressure to 40-150 atm. Thus, a well mixed mixt. of 23.5 g. PhOH, 6.8 g. red P, and 4.5 ml. H<sub>1</sub>O heated in an autoclave 4.5 hrs. at 250-65° and 110 atm., then allowed to cool over 12 hrs., gave a residual pressure of 20 atm. the gases being composed principally of H (90.5%). After dlin, with H<sub>1</sub>O, the residual red P was filtered off (5 g.), washed with Rt<sub>1</sub>O, the filtrates were warned to expel Et<sub>1</sub>O and extd. with ClH<sub>2</sub> evapn. of the C.H<sub>2</sub> gave 2 fractions: 2.8 g. PhPH<sub>1</sub>, b 87-96°, b. 180°, and 1 g. Ph-PH, b, 170°, b, 272°. Steam distr., of the PhOH from the aq. portion and evapn. of the residual solu, yielded 4 g. yellowish cryst, product, apparently crude PhPO,H<sub>1</sub>. In a similar cryt, but with only 2.25 ml. H<sub>2</sub>O, heating 16 hrs. to 260° at 50 atm. again yielded Ph-PH and a mixt. of acids of P. A mixt. of 8.2 g. red P with 23.2 g. dry NaOPh and 3.6 g. H<sub>2</sub>O heated in an autoclave over 4 hrs. to 250° (17 atm. pressure developed), kept there 3 hrs., allowed to col 12 hrs. (residual pressure of 30

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#### CIA-RDP86-00513R001860430004-5 "APPROVED FOR RELEASE: 03/14/2001

VOL'FKOVICH, S. I.

FD 191

USSR/Chemistry - Phosphate Fertilizers Production

Card 1/1

Authors

Vol'fkovich, S. I., Illarionov, V. V., and Remen, R. Ye.

Title

: Investigation of the process of hydrothermal conversion of

apatite

Periodical

: Khim. prom. 4, 11-17 (203-209), June 1954

Abstract

Investigated the defluorination of fluoroapatite with steam. Found that by treating an apatite concentrate with steam at 1400°C in the presence of 2% of silicon dioxide, a fertilizer which contains up to 34-18% of phosphorus pentoxide and less than 0.1% of fluorine is obtained. This fertilizer is approximately twice as concentrated as Thomas slag. Ten USSR references, three since 1940; twenty-five for-

eign references. Three graphs and seven tables.

Institution : Scientific Research Institute of Fertilizers and Insectofungicides

Vol'fkovich S.I.
USSR/Chemistry - Agricultural

FD-868

Card 1/1

Pub.50 - 1/24

Author

: Vol'fkovich, S. I., Mel'nikov, N. N., Orlov, V. I.

Title

: The chemical industry in the fight to increase yields and preserve crops (Concerning the opening of the All-Union Agricultural Ex-

position).

Periodical : Khim. prom., No. 6, 321-331 (1-11), Sep 1954

Abstract

: Review general trends in USSR agricultural chemistry and current production plans and other developments in fertilizers, insecticides, fungicides, herbicides, and plant growth stimulants. Six references,

all USSR, all since 1940. Three figures.

Institution:

Submitted

#### "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001860430004-5

FD-889

Vol' fkouich, S.

USSR/Chemistry - Technology, Electrothermic processes

Card 1/1

Pub.50 - 22/24

Author

: Vol'fkovich, S.

Title

: Obituary of L. A. Kuznetsov

Periodical : Khim. prom., No 6, 379 (59), Sep 1954

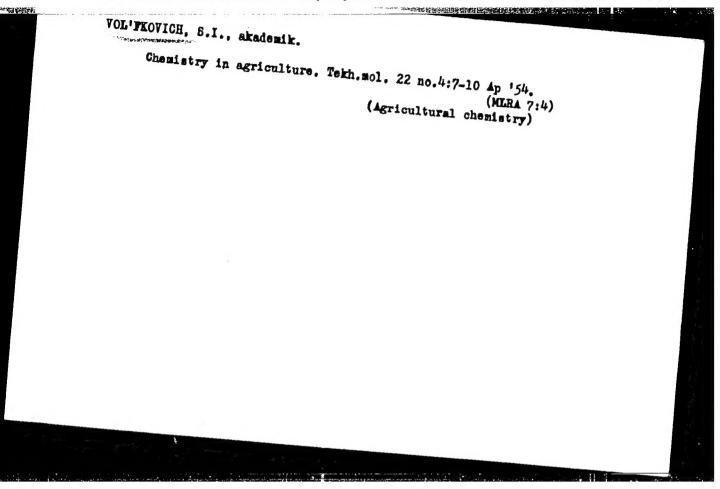
Abstract

: Reviews the life and activity of L. A. Kuznetsov (1894-1954), a chemical engineer, research worker, and technologist who was active in the calcium carbide and calcium cyanamide industries, worked on the production of cyanides, thiourea, melamine, insecticides, various synthetic organic chemicals, etc., and was in charge of the installation and operation of plants manufacturing these products. According to Vol'fkovich, Kuznetsov was one of the foremost USSR authorities on electrothermic processes. One figure (portrait of

Kuznetsov).

Institution:

Submitted



JOL FREJICH, C.I.

Subject : USSR/Chemistry

AID P - 263

Card

: 1/1

Authors

: Vol'fkovich, S. I. and Kapustinskiy, A. F. (Moscow)

Title

Ergard Viktorovich Britske (1877-1953)

Periodical

: Usp. khim. 23, No. 2, 129-141, 1954

Abstract

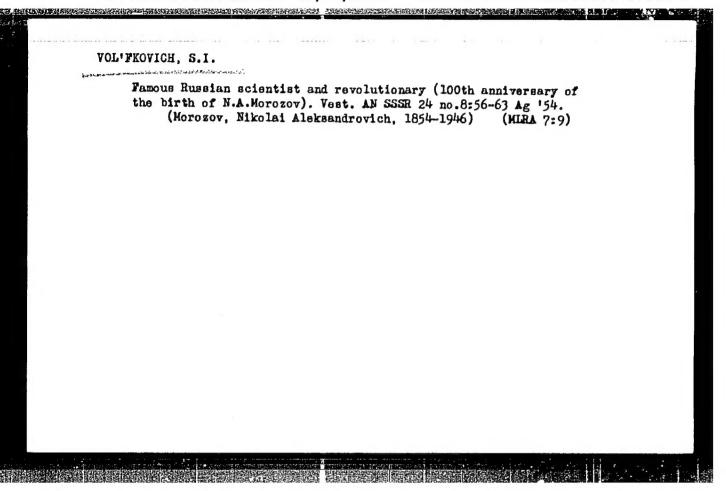
Biography and outline of E. V. Britske's scientific and industrial activities (fertilizers, metallurgy). A

list of his publications is given. Four references (Russian): 1931-1947.

Institution:

None

Submitted : No date



VOL'FKOVICH, S. I.

"Soviet Work on Hydrothermic Method for Conversion of Natural Phosphates into Fertilizers, Vest Ak Nauk SSSR, 701 24, No 12, p 72, 1954

Summary W-31263, 10 May 55